

Title (en)  
NEGATIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERY AND RECHARGEABLE LITHIUM BATTERY COMPRISING SAME

Title (de)  
NEGATIVES AKTIVMATERIAL FÜR WIEDERAUFLADBARE LITHIUMBATTERIE UND WIEDERAUFLADBARE LITHIUMBATTERIE DAMIT

Title (fr)  
MATÉRIAU ACTIF NÉGATIF POUR BATTERIE AU LITHIUM RECHARGEABLE ET BATTERIE AU LITHIUM RECHARGEABLE COMPRENANT CELUI-CI

Publication  
**EP 3819963 A1 20210512 (EN)**

Application  
**EP 20206308 A 20201106**

Priority  
KR 20190142040 A 20191107

Abstract (en)  
Disclosed are a negative active material for a rechargeable lithium battery and a rechargeable lithium battery including the same, wherein the negative active material includes Si nanoparticles and an amorphous carbon, having sphericity (aspect ratio) of about 0.7 or more and a BET of 10 m<sup>2</sup>/g or less.

IPC 8 full level  
**H01M 4/04** (2006.01); **H01M 4/133** (2010.01); **H01M 4/134** (2010.01); **H01M 4/1393** (2010.01); **H01M 4/1395** (2010.01); **H01M 4/36** (2006.01); **H01M 4/38** (2006.01); **H01M 4/583** (2010.01); **H01M 4/587** (2010.01); **H01M 4/62** (2006.01); **H01M 10/052** (2010.01)

CPC (source: CN EP KR US)  
**H01M 4/043** (2013.01 - EP); **H01M 4/0471** (2013.01 - EP); **H01M 4/133** (2013.01 - EP); **H01M 4/134** (2013.01 - EP); **H01M 4/1393** (2013.01 - EP); **H01M 4/1395** (2013.01 - EP); **H01M 4/364** (2013.01 - EP KR); **H01M 4/366** (2013.01 - CN EP KR); **H01M 4/386** (2013.01 - CN EP KR US); **H01M 4/583** (2013.01 - US); **H01M 4/587** (2013.01 - EP KR); **H01M 4/625** (2013.01 - CN EP KR); **H01M 4/628** (2013.01 - CN); **H01M 4/663** (2013.01 - US); **H01M 4/667** (2013.01 - US); **H01M 10/052** (2013.01 - CN EP KR); **H01M 10/0525** (2013.01 - US); **H01M 10/0587** (2013.01 - CN); **H01M 2004/021** (2013.01 - CN); **H01M 2004/027** (2013.01 - CN KR US); **H01M 2004/028** (2013.01 - US); **H01M 2300/0094** (2013.01 - US); **Y02E 60/10** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Citation (search report)  
• [XII] EP 3131140 A1 20170215 - TOSOH CORP [JP]  
• [XI] WO 2015146864 A1 20151001 - TOSOH CORP [JP]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3819963 A1 20210512**; CN 112786849 A 20210511; KR 20210055505 A 20210517; US 11631861 B2 20230418; US 2021143439 A1 20210513

DOCDB simple family (application)  
**EP 20206308 A 20201106**; CN 202011202740 A 20201102; KR 20190142040 A 20191107; US 202017084983 A 20201030